

Fig. 1 (prior art)

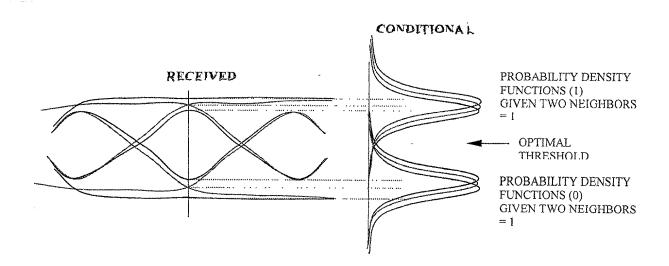
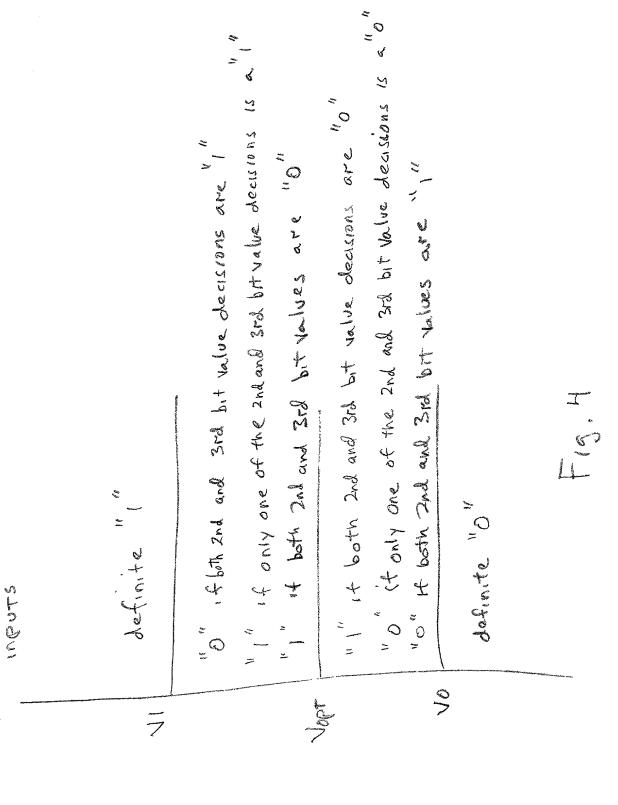
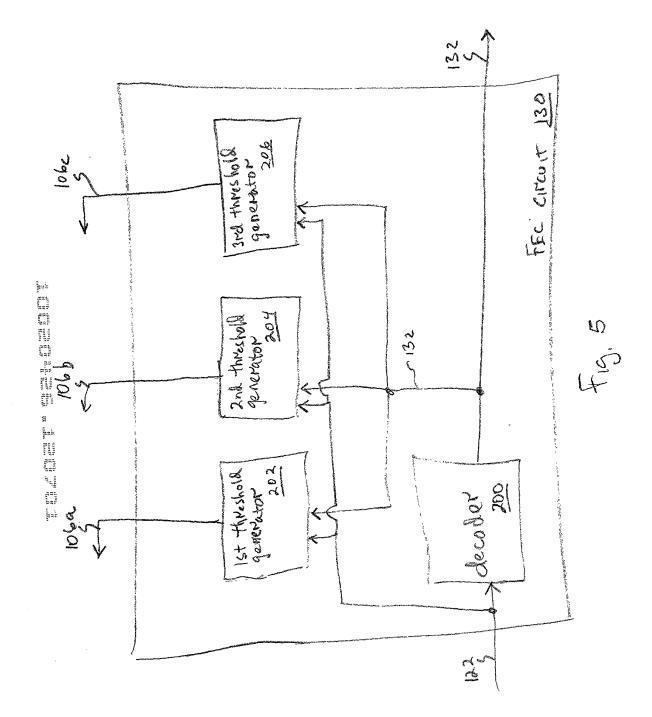


Fig. 2 (prior art)

NRZ data stream





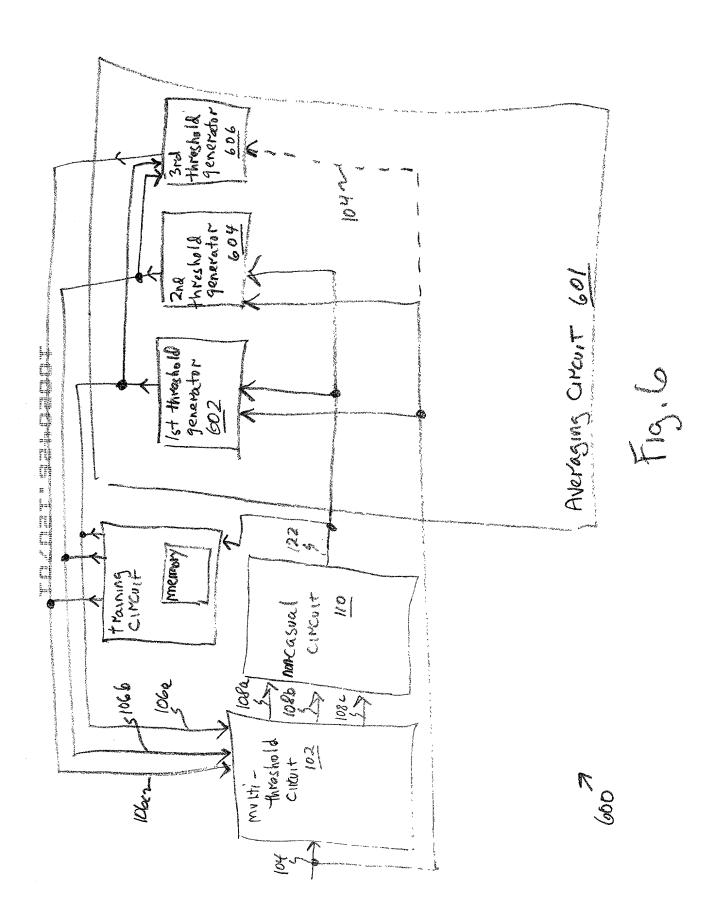
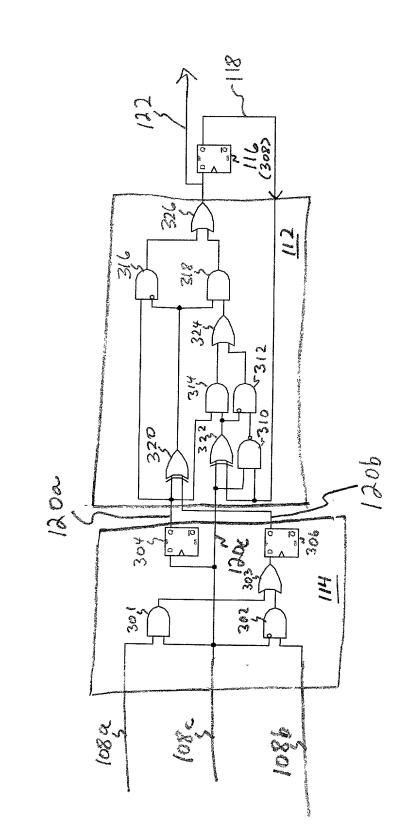


Fig. Ta



FIRST BIT Estim	at E	2nd bit	3rd bit	1st bit Value
line 120a	1206	Value	Value	
0 0 0	0 0 0	0 0 1 1	0 1 0 1	0 0 0 0
0 0 0	1 1 1	0 0 1 1	0 1 0 1	1 0 0 0
1 1 1	0 0 0	0 0 1 1	0 1 0 1	1 1 1 0
1 1 1 1	1 1 1	0 0 1 1	0 1 0 1	1 1 1 1

F19.76

Only One Cor	rection per 3 k E	rror in the c			
Corrected Sequence	Graphic	Affected Counter		Action on Feedback	
OK-ER-OK		0 cntr	1 cntr	-	+
0 0 0	. :	Cond 1 0 inc		V1 toggle	
0 0 1		Cond 2 0 inc		V2 toggle	
0 1 0			Cond 1 1 inc		V1 Toggle
0 1 1			Cond 2 1 inc		V2 Toggle
1 0 0	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	Cond 3 0 inc		V3 Toggle	
1 0 1		Cond 4 0 inc		V4 Toggle	
1 1 0	: \		Cond 3 1 inc		V3 Toggle
1 1 1	:		Cond 4 1 inc		V4 Toggle

F19. 9

tig. 10a START establishing 1st, threshold CVI) 640/a establishing 2nd threshold (VO) |s establishing 35d threshold (Vopt) NRZ datas receiving Supplying let bit for companison comparing 1st bit estimate to 2nd bit value comparing 1st bit estimate to 3rd bit value Rate PIT Marke FEcdecoding 1st bit values USIM FEC correction to adjust throshold tracking "O" errors when 2nd + 3rd bits are both Tracking "1" errors when 2nd 3rd bits are both adjusting VI for 4126 to Fig 106

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from Fig 10a Tracking "o" corrections when 2nd + 3rd bits are both "o" tracking "1" corrections when 2nd + 3rd bits are both "o 412 adjusting 4129 Tracking "o corrections when only one of the 2nd and 3rd bits is a tracking "I corrections when only one of the half that the the that the that the that the that the 2nd and 3rd bits is a "1" adjusting Vopt for412 i 412) tracking corrections when let bit value is "1" adjusting Nopt 5412K

Fig. 106

400 F18. 11 START establishing 1st threshold 22 threshold 3rd threshold Nort Lata NRZ Jupplying 1st bit estimate for companison . Frik prop gran non sinch it is noch inne is is is mad it is it. noch than it is is mad it is than that 2nd bit value comparing 1st bit estimate to aring 1st bitestimate to bit value He make these the state of the Idetermining Let but walve 414 tracking NRZ inputs when 26it = 36it adverace partzu sha

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determining let bit values 1504
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with training data
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Three holds
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